# Dharmsinh Desai University, Nadiad Faculty of Technology Department of Computer Engineering



## **ASSIGNMENT 11**

Subject: Smart Device Programming

#### **Submitted To:**

Prof. Jignesh Shah

CE Department

### **Submitted By:**

Sonani Aneri V.

Student ID:20CEUOG138

Roll No.: CE136

# Code test 1: Handling Error: Try Catch

Using the world-time API, continue developing the app that we started in the last lab.

```
class Loading extends StatefulWidget {
    @override
    State<Loading> createState() => _LoadingState();
}
class _LoadingState extends State<Loading> {
    String? time = 'LOADING......';

    void setWorldTime() async {
        WordTime timeinstance =
        WordTime(location: 'kolkata',flag: 'india.png',url: 'Asia/Kolkata');
        await timeinstance.getTime();

// print(timeinstance.time);
    setState(() {
        time = timeinstance.time;
        });
}
    @override
    void initState() {
        super.initState();
        setWorldTime();
}
```



Now we will add error handling. For that first of all make some intentionality mistake. i.e. Remove one character from API string

```
Future<void> getTime() async {
   Response response = await get(Uri.parse('http://worldtimeapi.org/api/timzone/$url'));
   Map timeData = jsonDecode(response.body);
```

Then output will be as shown below. Here in output we can see that loading is printing. So we need to do something that will display error accordingly. Here on error we are setting time value to some appropriate message. So that it can be displayed there.

```
time = currenttime.toString();
}
catch(e){
  print('Caught error : $e');
  time = 'Could not get time data';
}
```

So if there is some issue in fetching time then we can set time value as shown above. So updated output would be ...



# Code test 2: Data passing between route Code test 3: Formatting and showing data— dates

Do some modifications in loading.dart file as shown below.

```
void setWorldTime() async {
   WorldTime timeinstance = WorldTime(location: 'kolkata', flag: 'india.png', url: 'Asia/Kolkata');
   await timeinstance.getTime();
   Navigator.pushReplacementNamed(context, '/home', arguments: {
        'location': timeinstance.location,
        'flag': timeinstance.flag,
        'time': timeinstance.time,
      });
   // setState(() {
      // time = timeinstance.time;
      // });
}
```

Here we are using routing with passing some additional arguments into it. So in home.dart file we can access location, flag and time field.

### **Basic routing**

Now we will perform some formatting steps using intl. For that we need to add it into pubspec.yaml Import intl in time.dart file and change accordingly that file.

```
int.parse(offsetMinutes), hours: int.parse(offsetHours

time = DateFormat.jm().format(currenttime);

//time = currenttime.toString();
}
catch(e){
```

Now home dart file would contains below code.

```
children: [
@override
                                                                                         Text(
 data = ModalRoute.of(context)?.settings.arguments as Map;
                                                                                            style: TextStyle(
                                                                                              letterSpacing: 2.0,
 return Scaffold(
   backgroundColor: Color(0xffFFF5E4),
  −appBar: AppBar(
     centerTitle: true,
     backgroundColor: Color(0xff850E35),
                                                                                     SizedBox(height: 24.0,),
                                                                                     Text(
   body: SafeArea(
                                                                                       style: TextStyle(
   —— child: Padding(
         padding: const EdgeInsets.fromLTRB(0.0,120.0,0.0,0.0),
        - child: Column(
          children: [
                   style: TextStyle(
                    letterSpacing: 2.0,
```

### **Final Output:**





# Code test 4: Using spinners for loading page

Add flutter spinkit into pubspec.yaml file and import it into

loading file.

```
dependencies:

flutter:

sdk: flutter

http: ^0.13.5

intl: ^0.17.0

lutter_spinkit: ^5.1.0
```

Now we will use flutter spinner for loading and after data fetched current time and location will be displayed.

### GitHub repository link:

https://github.com/AneriSonani09/SDP\_Labs/tree/master